

WHAT IS CLAIMED IS:

1. A microscope focusing apparatus comprising: a light illuminator; an objective lens; an observation tube; a holder which holds the light illuminator, the objective lens and the observation tube; a focusing main body including a focusing movable portion which linearly and vertically moves; and an attaching portion, formed in said focusing movable portion, which fixes said holder,

wherein said holder comprises a first holder including a first support, the first support disposed on an observation optical axis, which supports said light illuminator, and a second holder including a second support, the second support disposed outside said observation optical axis, which supports said light illuminator, and one of the first and second holders can be selectively attached to said attaching portion.

2. The microscope focusing apparatus according to claim 1, wherein said first support supports said light illuminator with a round dovetail.

3. The microscope focusing apparatus according to claim 2, further comprising a revolver which holds a plurality of said objective lenses in a changeable manner,

wherein said first holder has the dovetail to which said revolver is to be attached, said dovetail

allocated on said observation optical axis.

4. The microscope focusing apparatus according to claim 1, wherein said second support supports said focusing main body with four bolts.

5 5. The microscope focusing apparatus according to claim 4, wherein a revolver which holds a plurality of said objective lenses in a changeable manner is attached to said light illuminator.

10 6. The microscope focusing apparatus according to claim 1, wherein said holder and said focusing movable portion have respective attaching surfaces, and respective wall surfaces perpendicular to said respective attaching surfaces are allowed to abut on each other, so that the holder and the focusing movable  
15 portion are positioned and assembled.

7. The microscope focusing apparatus according to claim 1, further comprising an elastic member between said holder and said focusing main body,

20 said elastic member being selectively attachable/detachable in accordance with a load applied to said holder.

25 8. The microscope focusing apparatus according to claim 7, further comprising a weight balance portion comprising a fixed portion, a vertically movable portion, and an elastic member which biases the vertically movable portion in an upward direction, said fixed portion being attachably/detachably fixed to said

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focusing main body,

wherein said holder further comprises an abutment  
portion which abuts on said vertically movable portion  
of said weight balance portion to receive an action of  
5 a bias force in said upward direction, and

the bias force of said elastic member can be  
selected in accordance with the type of said microscope.

9. The microscope focusing apparatus according to  
claim 8, wherein said weight balance portion further  
10 comprises a stopper which defines a movement range of  
said vertically movable portion with respect to said  
fixed portion.

10. The microscope focusing apparatus according to  
claim 1, wherein said focusing main body is separated  
15 into a guide portion and a focusing handle main body,  
and said guide portion can be selected.

11. The microscope focusing apparatus according to  
claim 10, wherein said guide portion has said focusing  
movable portion and a frame of said focusing movable  
20 portion, and

said focusing handle main body has a focusing  
handle and a frame of said focusing handle.

12. The microscope focusing apparatus according to  
claim 10, wherein a middle gear portion is attachably/  
25 detachably disposed between said guide portion and said  
focusing handle main body.

13. A microscope focusing apparatus comprising: a

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light illuminator; an objective lens; an observation  
tube; a holder which holds the light illuminator, the  
objective lens and the observation tube; a focusing  
main body including a focusing movable portion which  
5 linearly and vertically moves; and an attaching portion  
formed in said focusing movable portion,

wherein said holder is attachably/detachably  
attached and fixed to said attaching portion, and can  
be changed in accordance with the type of said light  
10 illuminator.

14. A microscope comprising the microscope  
focusing apparatus according to claim 1.

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